



**Ultrafiltration  
Membranes For  
Sea Water &  
Brackish Water**

# SWT-UF40

## SWT-UF series Ultrafiltration Module

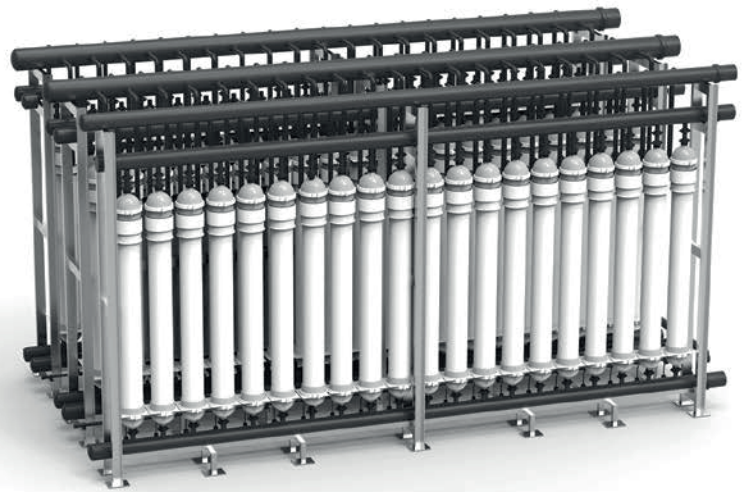
When it comes to filtration, H+S ultrafiltration membranes and skid system offers superior level of performance and reliability. The ultrafiltration membranes delivers consistent and high quality filtrate in challenging feed water conditions.

### FEATURES

- Hydrophilic membrane material with high permeability
- Exceptional membrane mechanical strength
- Excellent chemical resistance and tolerance
- Long service life

### APPLICATIONS

- Ground/ Well and Surface Water Treatment
- Desalination
- RO Pre-treatment
- Municipal/ Tap Water Purification
- Municipal & Industrial Wastewater Recycling



### TECHNICAL SPECIFICATIONS

#### Membrane

Feature	UOM	Specification
Material	-	Polyvinylidene Fluoride (PVDF)
Pore Size	µm	0.025
Outer/Inner Diameter	mm	1.30/ 0.70
pH Tolerance (Operation/ Cleaning)	-	2 – 11/ 1 – 12
Temperature Tolerance	°C	5 – 40
Bacteria Removal	LRV	6
Tensile Load	N	5

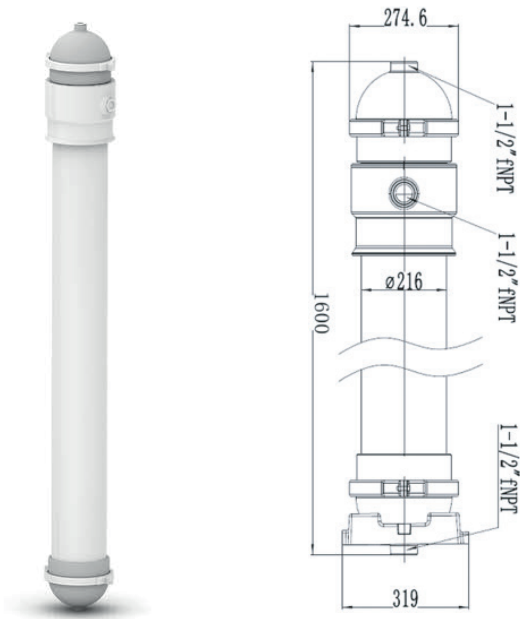
#### Module

Feature	UOM	Specification
Overall Dimension (Diameter x Length)	mm	344 x 1,600
Membrane Area	m <sup>2</sup>	40
Feed Connection Size (Type)	inch	1.5 (FNPT)
Concentrate Connection Size (Type)	inch	1.5 (FNPT)
Filtrate Connection Size (Type)	inch	1.5 (FNPT)
Dry/ Wet Weight	kg	50/90
Potting Material	-	Epoxy/ PU

**Operational Information**

Feature	UOM	Specification
Filtration Mode	-	Outside-In
Operation Mode	-	Cross-Flow/ Dead-End
Max Feed Pressure	bar	2.5
Max Transmembrane Pressure	bar	2.0
Max Backwash Pressure	bar	2.0
Typical Flux Rates	LMH	60 – 120*
Physical Cleaning Frequency	mins	30 – 120*
Chemical Cleaning Frequency	days	5 – 30*

\* Depending on water quality and on-site conditions.



**Module Parts**

Item No.	Part No.	Item Name	Material
1	SWT-UF40-01	End Cap	uPVC
2	SWT-UF40-02	End Cap Clamps	POM
3	SWT-UF40-03	Housing	uPVC
4	SWT-UF40-04	Concentrate Chamber	uPVC
5	SWT-UF40-05	Locating Base	ABS
6	SWT-UF40-06	End Cap O-Rings	EPDM



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# SWT-UF60

## SWT-UF series Ultrafiltration Module

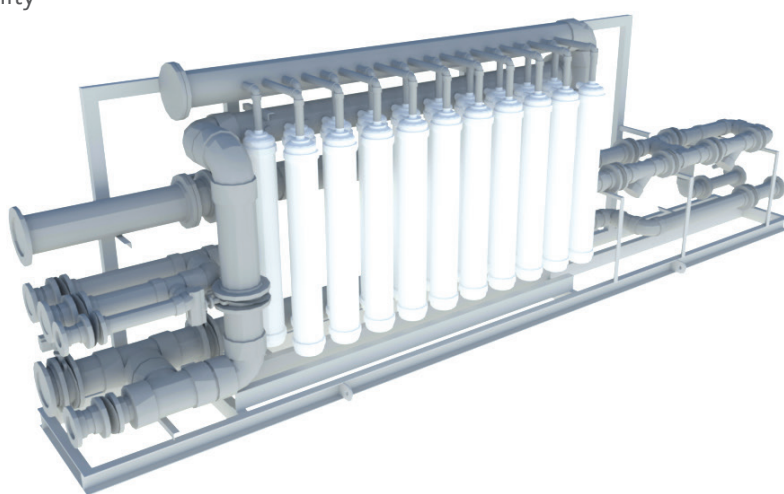
When it comes to filtration, SWT ultrafiltration membranes and skid system offers superior level of performance and reliability. The ultrafiltration membranes delivers consistent and high quality filtrate in challenging feed water conditions.

### FEATURES

- Hydrophilic membrane material with high permeability
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### APPLICATIONS

- Ground/ Well and Surface Water Treatment
- Desalination
- RO Pre-treatment
- Municipal/ Tap Water Purification
- Municipal & Industrial Wastewater Recycling



### TECHNICAL SPECIFICATIONS

#### Membrane

Feature	UOM	Specification
Material	-	Polyvinylidene Fluoride (PVDF)
Pore Size	µm	0.025
Outer/Inner Diameter	mm	1.30/ 0.70
pH Tolerance (Operation/ Cleaning)	-	2 – 11/ 1 – 12
Temperature Tolerance	°C	5 – 40
Bacteria Removal	LRV	6
Tensile Load	N	5

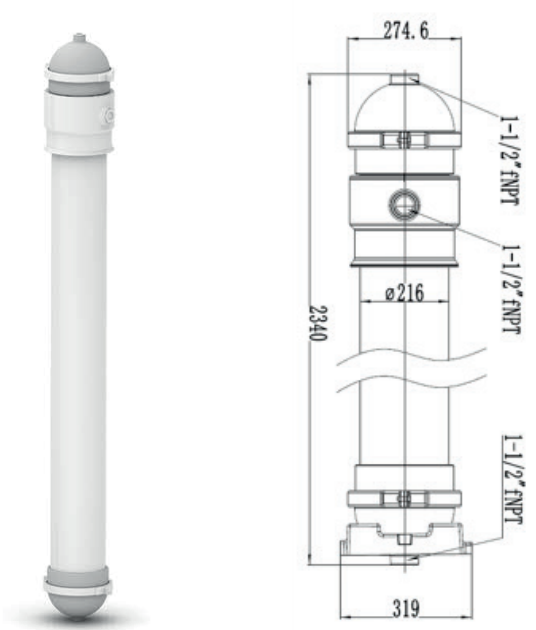
#### Module

Feature	UOM	Specification
Overall Dimension (Diameter x Length)	mm	344 x 2,340
Membrane Area	m <sup>2</sup>	60
Feed Connection Size (Type)	inch	1.5 (FNPT)
Concentrate Connection Size (Type)	inch	1.5 (FNPT)
Filtrate Connection Size (Type)	inch	1.5 (FNPT)
Dry/ Wet Weight	kg	60/ 100
Potting Material	-	Epoxy/ PU

**Operational Information**

Feature	UOM	Specification
Filtration Mode	-	Outside-In
Operation Mode	-	Cross-Flow/ Dead-End
Max Feed Pressure	bar	2.5
Max Transmembrane Pressure	bar	2.0
Max Backwash Pressure	bar	2.0
Typical Flux Rates	LMH	60 – 120*
Physical Cleaning Frequency	mins	30 – 120*
Chemical Cleaning Frequency	days	5 – 30*

\* Depending on water quality and on-site conditions.



**Module Parts**

Item No.	Part No.	Item Name	Material
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2	SWT-UF60-02	End Cap Clamps	POM
3	SWT-UF60-03	Housing	uPVC
4	SWT-UF60-04	Concentrate Chamber	uPVC
5	SWT-UF60-05	Locating Base	ABS
6	SWT-UF60-06	End Cap O-Rings	EPDM



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# SWT-PV300S

## SWT-PV series

### 8" Standard Pressure Vessel

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With over the years of experience in FRP pressure vessel engineering and design. H+S specializes in the provision of high-quality pressure vessels.

#### HISTORY

We design pressure vessels to provide long-term, trouble-free operation, with minimal down time and improved running costs.

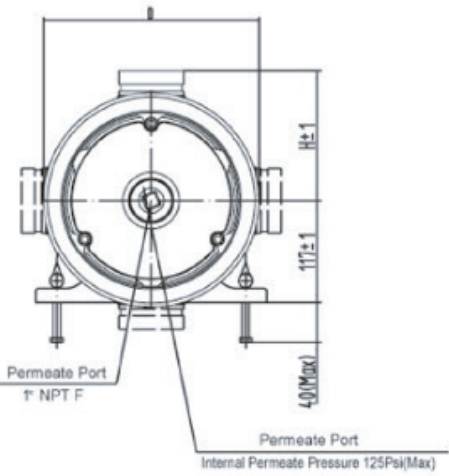
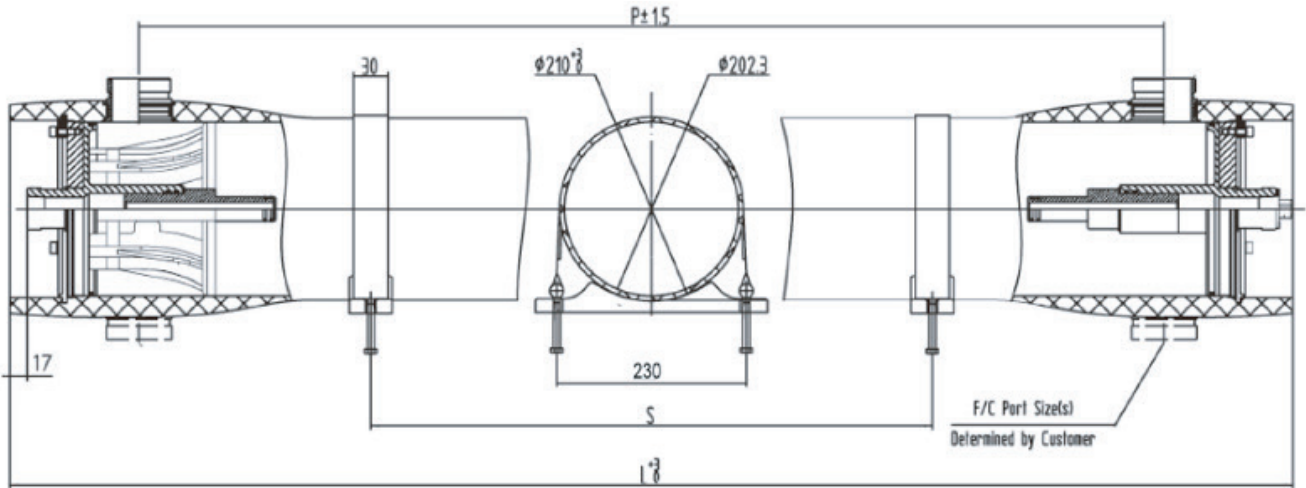
H+S pressure vessels are manufactured for small to medium to large commercial sized plants. We offer pressure vessels in a variety of sizes that fit standard sized membranes offered by top membrane manufacturers. In addition, we custom design vessels for high chemical resistance.

#### APPLICATIONS

H+S Pressure Vessels are engineered for permeate and feed/ concentrate with variable port options, connection types and sizes. Our pressure vessels are fully customizable and may offered as OEM equipment.

#### FEATURES

- Easy installation and trouble-free maintenance.
- Engineered for high chemical resistance in liquids including: electroplate, garbage penetrant, chlorine and concentrated liquid.
- Custom designed and configured to customer specifications.
- 300Psi, 1000Psi, 1200Psi



1. Available F/C Port: 1.5 " ,2 " ,2.5 " Clamp
2. Permeate Port: 1 " NPT F
3. Design Pressure: 300 Psi (21 Bar)
4. Design Temperature: 150°F (66°C)
5. Min. Allowable Temperature: 14°F (-10°C)
6. Working Medium: Water, PH 3~11
7. Element Length: (1-7) X 40 "
8. Hydrotest:   Standard: 1.5 x Design Pressure  
                  ASME: 1.1 x Design Pressure

F/C Port Size	D	H
1.5"	241 mm	148 mm
2.0"	244 mm	151 mm
2.5"	248 mm	153 mm

Shell Length Code	Part No.	L (mm)	P (mm)	S (mm)
1	SWT-PV300S-1	1,582	1,143	700
2	SWT-PV300S-1	2,598	2,159	1,460
3	SWT-PV300S-1	3,614	3,175	2,080
4	SWT-PV300S-1	4,639	4,191	1,600 x 2
5	SWT-PV300S-1	5,646	5,207	2,000 x 2
6	SWT-PV300S-1	6,223	6,223	2,360 x 2
7	SWT-PV300S-1	7,239	7,239	2,860 x 2



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# SWT-PV1000S

## SWT-PV series

### 8" Standard Pressure Vessel

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With over the years of experience in FRP pressure vessel engineering and design. H+S Technologie specializes in the provision of high-quality pressure vessels.

#### HISTORY

We design pressure vessels to provide long-term, trouble-free operation, with minimal down time and improved running costs.

H+S pressure vessels are manufactured for small to medium to large commercial sized plants. We offer pressure vessels in a variety of sizes that fit standard sized membranes offered by top membrane manufacturers. In addition, we custom design vessels for high chemical resistance.

#### APPLICATIONS

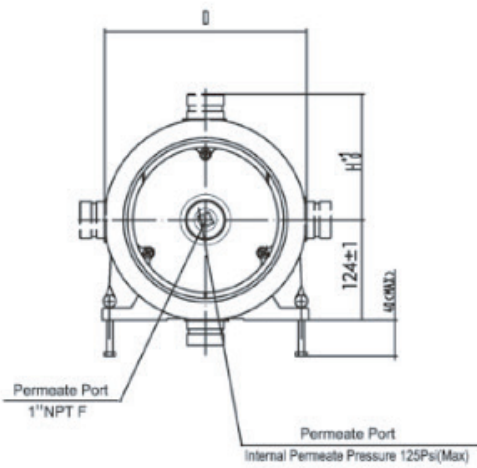
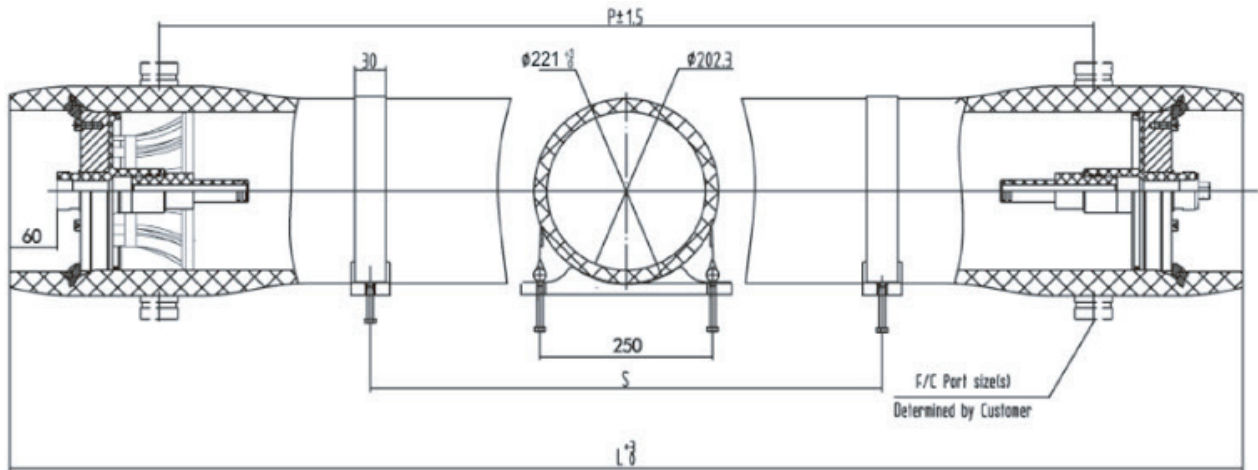
H+S Pressure Vessels are engineered for permeate and feed/ concentrate with variable port options, connection types and sizes. Our pressure vessels are fully customizable and may offered as OEM equipment.

#### APPLICATIONS

- Easy installation and trouble-free maintenance.
- Engineered for high chemical resistance in liquids including: electroplate, garbage penetrant, chlorine and concentrated liquid.
- Custom designed and configured to customer specifications.
- 300Psi, 1000Psi, 1200Psi



**SWT-1000S**    **SWT-PV series**    8" Standard Pressure Vessel



1. Available F/C Port: 1.5 " ,2 " ,2.5 " Clamp
2. Permeate Port: 1 " NPT F
3. Design Pressure: 1000 Psi ( 69Bar)
4. Design Temperature: 150°F (66°C)
5. Min. Allowable Temperature: 14°F (-10°C)
6. Working Medium: Water, PH 3~11
7. Element Length: (1-7) X 40 "
8. Hydrotest:   Standard: 1.5 x Design Pressure  
                  ASME: 1.1 x Design Pressure

F/C Port Size	D	H
1.5"	261 mm	161 mm
2.0"	263 mm	164 mm
2.5"	267 mm	166 mm

Shell Length Code	Part No.	L (mm)	P (mm)	S (mm)
1	SWT-PV1000S-1	1,582	1,143	700
2	SWT-PV1000S-1	2,598	2,159	1,460
3	SWT-PV1000S-1	3,614	3,175	2,080
4	SWT-PV1000S-1	4,639	4,191	1,600 x 2
5	SWT-PV1000S-1	5,646	5,207	2,000 x 2
6	SWT-PV1000S-1	6,662	6,223	2,360 x 2
7	SWT-PV1000S-1	7,678	7,239	2,860 x 2



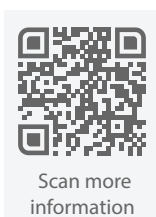
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# H+S Commitment To Quality and Excellence

Our goals are to achieve total customer satisfaction by delivering the greatest value to our customers at the most competitive cost. We focus on on-time delivery, customer-satisfying products, and services. We are committed to maintaining and constantly improving the quality of our products and services so that customer requirements are consistently met.



-  H+S Technologie GmbH  
Bergstrasse 62  
8700 Küsnacht ZH
-  H+S Technologie Asia Pte Ltd  
22 Changi Business Park Central 2  
#02-01/02 Kingsmen Experience Building  
Singapore 486032
-  [info@hs-technologie.com](mailto:info@hs-technologie.com)
-  [www.hs-technologie.com](http://www.hs-technologie.com)



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